This listing of claims will replace all prior versions, and listings, of claims in the application:

Claims 1-10 (canceled)

| 1 | Claim 11 (new): Sensor for transmission measurement in a |
|---------------------------------|---|
| 2 | washing machine or dishwasher with: |
| 3 | - a carrier (2, 104), |
| 4 | - a transmitter (4, 106) attached to the carrier |
| 5 | (2, 104) to emit a transmitter beam (8), |
| 6 | - a receiver (6, 108) attached to the carrier (2, |
| 7 | 104) to receive the beam generated by the |
| 8 | transmitter (4, 106), and |
| 9 | - a diaphragm system (12, 128) arranged on the |
| 10 | carrier (2, 104) spaced from the transmitter (4, |
| 11 | 106), with a transmitter diaphragm (14, 130) |
| 12 | arranged in the beam path of the transmitter beam |
| 13 | in order to generate a measurement beam (18) |
| 14 | aligned to the receiver (6, 108). |
| | |
| | · · · · · · · · · · · · · · · · · · · |
| 1 | Claim 12 (new): Sensor for transmission measurement in a |
| 1 2 | |
| | Claim 12 (new): Sensor for transmission measurement in a |
| 2 | Claim 12 (new): Sensor for transmission measurement in a washing machine or dishwasher with: |
| 2 | Claim 12 (new): Sensor for transmission measurement in a washing machine or dishwasher with: - a carrier (2, 104), |
| 2 3 4 | Claim 12 (new): Sensor for transmission measurement in a washing machine or dishwasher with: - a carrier (2, 104), - a transmitter (4, 106) attached to the carrier |
| 2 3 4 5 | Claim 12 (new): Sensor for transmission measurement in a washing machine or dishwasher with: - a carrier (2, 104), - a transmitter (4, 106) attached to the carrier (2, 104) to emit a transmitter beam (8), |
| 2 3 4 5 6 | Claim 12 (new): Sensor for transmission measurement in a washing machine or dishwasher with: - a carrier (2, 104), - a transmitter (4, 106) attached to the carrier (2, 104) to emit a transmitter beam (8), - a receiver (6, 108) attached to the carrier (2, |
| 2 3 4 5 6 7 | Claim 12 (new): Sensor for transmission measurement in a washing machine or dishwasher with: - a carrier (2, 104), - a transmitter (4, 106) attached to the carrier (2, 104) to emit a transmitter beam (8), - a receiver (6, 108) attached to the carrier (2, 104) to receive the beam generated by the |
| 2 3 4 5 6 7 8 | Claim 12 (new): Sensor for transmission measurement in a washing machine or dishwasher with: - a carrier (2, 104), - a transmitter (4, 106) attached to the carrier (2, 104) to emit a transmitter beam (8), - a receiver (6, 108) attached to the carrier (2, 104) to receive the beam generated by the transmitter (4, 106), and |
| 2 3 4 5 6 7 8 | Claim 12 (new): Sensor for transmission measurement in a washing machine or dishwasher with: - a carrier (2, 104), - a transmitter (4, 106) attached to the carrier (2, 104) to emit a transmitter beam (8), - a receiver (6, 108) attached to the carrier (2, 104) to receive the beam generated by the transmitter (4, 106), and - a diaphragm system (12, 128) arranged on the |

- generate a reception beam aligned to the receiver (6, 108).
- 1 Claim 13 (new): Sensor for transmission measurement in a 2 washing machine or dishwasher with:
- 3 a carrier (2, 104),
- a transmitter (4, 106) attached to the carrier (2, 104) to emit a transmitter beam (8),
- a receiver (6, 108) attached to the carrier (2, 104) to receive the beam generated by the transmitter (4, 106) and
- 9 - a diaphragm system (12, 128) arranged on the 10 carrier (2, 104) spaced from the transmitter (4, 106) and receiver (6, 108) with a transmitter 11 12 diaphragm (14, 130) arranged in the beam path of 13 the transmitter beam (8) to generate a measurement 14 beam (18) and with a receiver diaphragm (16, 132) 15 arranged in the beam path of the measurement beam 16 (18) to generate a reception beam aligned to the 17 receiver (6, 108).
- Claim 14 (new): Sensor according to claim 11 in which
 the carrier (2, 104) has a first leg (114) on which
 the transmitter (4, 106) is arranged and a second
 leg (116) on which the receiver (6, 108) is arranged
 opposite the transmitter (4, 106).
- Claim 15 (new): Sensor according to claim 11, in which
 the carrier (2, 104) comprises legs (114, 116) which
 are of different lengths and on the free end (120)
 of the longer leg (116) of the carrier (2, 104) is
 arranged a temperature sensor (122).

- Claim 16 (new): Sensor according to claim 11, in which
 the diaphragm system has a first diaphragm system
 leg which holds the transmitter diaphragm (14, 130).
- Claim 17 (new): Sensor according to claim 12 in which
 the carrier (2, 104) has a first leg (114) on which
 the transmitter (4, 106) is arranged and a second
 leg (116) on which the receiver (6, 108) is arranged
 opposite the transmitter (4, 106).
- Claim 18 (new): Sensor according to claim 12, in which
 the carrier (2, 104) comprises legs (114, 116) which
 are of different lengths and on the free end (120)
 of the longer leg (116) of the carrier (2, 104) is
 arranged a temperature sensor (122).
- Claim 19 (new): Sensor according to claim 12, in which
 the diaphragm system has a first diaphragm system
 leg which holds the transmitter diaphragm (14, 130).
- Claim 20 (new): Sensor according to claim 13 in which
 the carrier (2, 104) has a first leg (114) on which
 the transmitter (4, 106) is arranged and a second
 leg (116) on which the receiver (6, 108) is arranged
 opposite the transmitter (4, 106).
- Claim 21 (new): Sensor according to claim 13, in which
 the carrier (2, 104) comprises legs (114, 116) which
 are of different lengths and on the free end (120)
 of the longer leg (116) of the carrier (2, 104) is
 arranged a temperature sensor (122).

- 1 Claim 22 (new): Sensor according to claim 13, in which 2 the diaphragm system has a first diaphragm system 3 leg which holds the transmitter diaphragm (14, 130). 1 Sensor according to claim 12, in which Claim 23 (new): 2 the diaphraqm system has a second diaphraqm system 3 leg which holds the first receiver diaphragm (16, 4 132). Claim 24 (new): Method for production of a sensor to 1 2 measure the transmission of a fluid in a washing 3 machine or a dishwasher with the following steps: 4 - provision of a carrier, 5 - provision of a transmitter to emit a transmitter 6 beam, 7 - provision of a receiver to receive a reception 8 beam, 9 - provision of a diaphragm system with a 10 transmitter diaphragm, 11 - attachment of the transmitter and receiver on the 12 carrier, and
- arrangement of the diaphragm system on the
 carrier so that the diaphragm system is spaced
 from the transmitter and the transmitter
 diaphragm is arranged in the beam path of the
- transmitter beam in order to generate a
 measurement beam aligned to the receiver.
- Claim 25 (new): Method for production of a sensor to
 measure the transmission of a fluid in a washing
 machine or a dishwasher with the following steps:

- 4 provision of a carrier,
- 5 provision of a transmitter to emit a transmitter 6 beam.
- 7 provision of a receiver to receive a reception 8 beam,
- 9 provision of a diaphragm system with a receiver diaphragm,
- attachment of the transmitter and receiver on the carrier, and
- arrangement of the diaphragm system on the
 carrier so that the diaphragm system is spaced
 from the transmitter and the receiver diaphragm
 is arranged in the beam path of the transmitter
 beam in order to generate a reception beam
 aligned to the receiver.
- 1 Claim 26 (new): Method for production of a sensor to
 2 measure the transmission of a fluid in a washing
 3 machine or a dishwasher with the following steps:
- 4 provision of a carrier,

9

10

- 5 provision of a transmitter to emit a transmitter 6 beam,
- 7 provision of a receiver to receive a reception beam,
 - provision of a diaphragm system with a transmitter diaphragm and a receiver diaphragm,
- attachment of the transmitter and receiver on the carrier, and
- arrangement of the diaphragm system on the
 carrier so that the diaphragm system is spaced
 from the transmitter and the receiver, the
 transmitter diaphragm is arranged in the beam

| 17 | path of the transmitter beam in order to generate |
|----|---|
| 18 | a measurement beam and the receiver diaphragm is |
| 19 | arranged in the beam path of the measurement beam |
| 20 | to generate a reception beam aligned to the |
| 21 | receiver. |